

## CONVERTEON™ Family AT-PWR14 Redundant Power Supply (AC) Installation Guide

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### Overview

The AT-PWR14, shown in Figure 1, is an AC redundant power supply (RPS) used with the AT-CV5000 chassis only. When installed, the module operates in a standby mode. If the standard power supply fails or loses power, the AT-PWR14 module changes from standby to active and provides all power to the system to prevent a network failure.

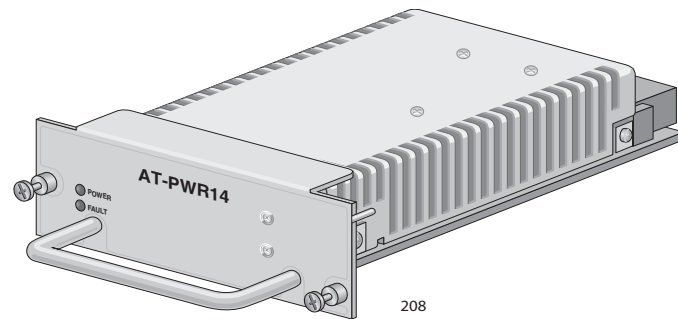


Figure 1. AT-PWR14 Power Supply Module

### Note

The power supply is hot-swappable. You can install it without powering OFF the AT-CV5000 chassis.



### Related Documents

This installation guide is an abbreviated version of the installation procedure. For details on the components, features, and functions of this product, refer to the following documents on our web site, [www.alliedtelesis.com](http://www.alliedtelesis.com):

- ❑ *AT-CV5000 Media Converter Chassis Installation Guide (PN 613-50580-00)*
- ❑ *AT-S70 Management Software User's Guide (PN 613-50617-00)*

### Package Contents

Make sure the following items are included in the shipping package. If any item is missing or damaged, contact your Allied Telesis sales representative for assistance.

- ❑ One AT-PWR14 Redundant Power Supply (AC)
- ❑ This Installation Guide
- ❑ Warranty Card

### Locations of the Power Supply Slots

Figure 2 illustrates the locations of the two power supply modules at the rear of an AT-CV5000 AC model chassis.

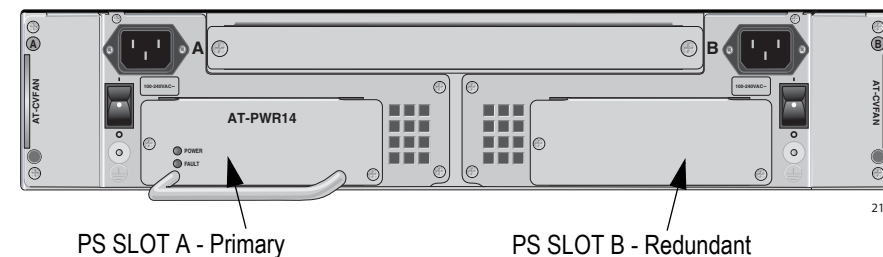


Figure 2. Locations of the Power Supply Slots on the Rear Panel of an AT-CV5000 AC Model Chassis

Before installing a power supply, please note the following guidelines:

### Note

The AT-CV5000 chassis comes with two slots designated for the power supplies; however, it is shipped with one standard power supply preinstalled and one empty slot for an optional power supply. The redundant power supply can be ordered separately from your ATI sales representative.

### Note

Make sure that both power supplies (primary and redundant) are rated for the same power ratings. For information on the power supply module, refer to the documentation that is shipped with the module.

### Note

The AT-PWR14 power supply can be installed in either one of the power supply expansion slots while the converter chassis is powered ON. You do not need to power OFF the chassis to install the power supply.

### Installing the AT-PWR14 Power Supply

To install the AT-PWR14, perform the following procedure:

1. Unpack the new AT-PWR14 module from its shipping container and store the package material in a safe location.

### Note

You must use the original shipping material if you need to return the power supply module to Allied Telesis.

2. Select the power supply slot in the AT-CV5000 chassis where you want to install the AT-PWR14 power supply.
3. Make sure that the power switch is in the OFF position.
4. Loosen the two captive screws that secure the blank slot cover (AT-CV5PNL2) of the selected power supply slot, and remove the blank slot cover, as shown in Figure 3.

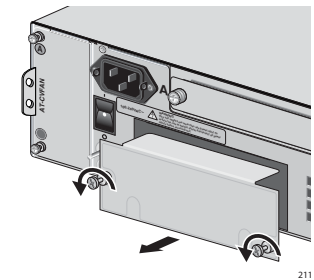


Figure 3. Removing the Power Supply Slot Cover

5. Remove the AT-PWR14 module from its shipping package.
6. Slide the AT-PWR14 module into the RPS slot, as shown in Figure 4.

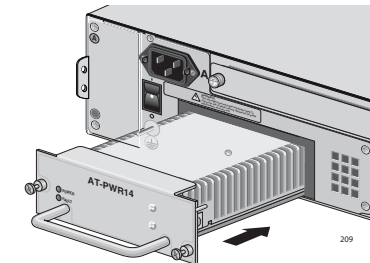


Figure 4. Inserting the AT-PWR14 Module into the Power Supply Slot

7. Secure the AT-PWR14 module to the AT-CV5000 chassis by using a Phillips screwdriver to tighten the captive screws, as shown in Figure 5.

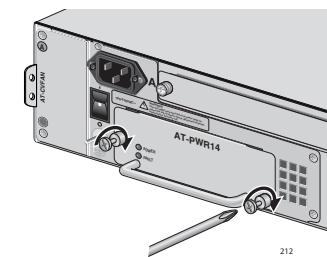


Figure 5. Securing the AT-PWR14 Module

## Powering On an AC Powered Chassis

To power on an AC powered chassis, perform the following procedure:

1. Make sure that the ON/OFF power switch is in the OFF position, as shown in Figure 6.

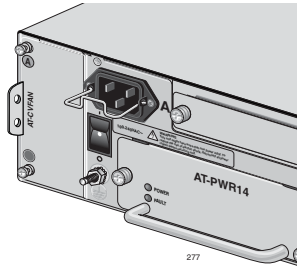


Figure 6. ON/OFF Power Switch in OFF Position

2. Position the power cord retaining clip in the up position, as shown in Figure 7.

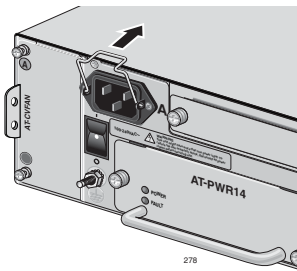


Figure 7. Power Cord Retaining Clip in the Up Position

3. Plug the power cord into the AC power connector on the back of the chassis, as shown in Figure 8.

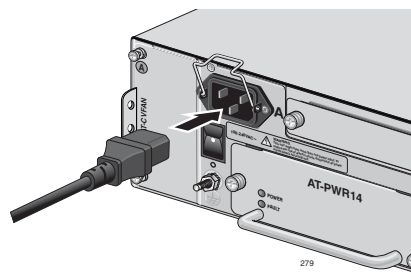


Figure 8. Connecting the AC Power Cord

4. Secure the cord by lowering the power cord retaining clip, as shown in Figure 9.

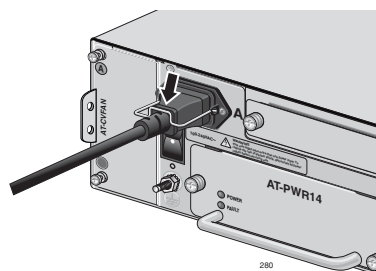


Figure 9. Securing the Power Cord with the Retaining Clip

5. Turn the ON/OFF power switch of the installed power supply module to the ON position, as shown in Figure 10.

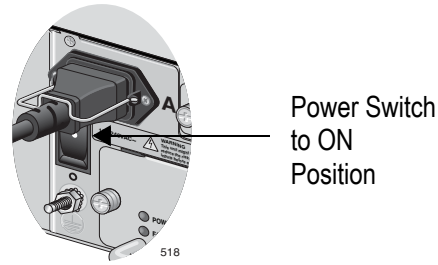


Figure 10. ON/OFF Power Switch in ON Position

6. Plug the other end of the power cord to a power outlet.  
Refer to “Technical Specifications” on page 2 for power requirements.

### Note

Refer to the appropriate *AT-CV5000 Chassis Installation Guide* for electrical safety and emission information.



### Caution

For added power protection to the AT-CV5000 Media Converter chassis, the two AC power cords should be connected to power sources that are operating from different power circuits. This will protect the chassis from a power loss should one of the power circuits fail.



### Warning

This unit might have more than one power cord. To reduce the risk of electric shock, disconnect all power cords before servicing the unit.



### Warning

Class I Equipment. THIS EQUIPMENT MUST BE EARTHED. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.

7. Check that the POWER LED on the AT-PWR14 module is green. If the POWER LED is OFF or the FAULT LED is ON, refer to the *AT-CV5000 Chassis Installation Guide* for troubleshooting instructions.

The chassis is now ready for network operations. No further installation steps are required if you do not need to change the default parameter settings of the chassis, which are listed in the *AT-S70 Management Software User's Guide*. However, if you want to manage the chassis or review the settings, refer to the *AT-CV5000 Chassis Installation Guide*.

### Note

To replace a power supply, refer to the *AT-CV5000 Chassis Installation Guide* for instructions on how to remove a power supply module from the chassis.

## Technical Specifications

### Physical and Environmental

Dimensions (H x W x L)	3.67 cm x 10.1 cm x 17.1 cm 1.445 in x 3.973 in x 6.726 in
Operating Temperature	0° C to 40° C (32° F to 104° F)
Storage Temperature	-25° C to 70° C (-13° F to 158° F)
Operating Relative Humidity	5% to 90% RH (non-condensing)
Storage Relative Humidity	5% to 95% RH (non-condensing)
Operating Altitude Range	Up to 3,000 m (9,843 ft)

### Electrical Ratings

Input Voltage	100 - 240 V AC, 3.2A maximum
AC Input Frequency	47-63 Hz
Power Consumption	75 watts maximum

## Electrical Safety and Emission Statement

**Standards:** This product meets the following standards when installed in compliant host equipment.

### U.S. Federal Communications Commission

#### RADIATED ENERGY

Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.


Note: Modifications or changes not expressly approved of by the manufacturer or the FCC, can void your right to operate this equipment.

### Industry Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

**Emission** FCC Class A, EN55022 Class A, VCCI Class A, C-TICK, CE

**WARNING:**  In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

**Immunity** EN55024

**Electrical Safety** UL60950 (cUL-us), EN60950 (TUV), CSA22.2 No. 950